



SEQUENCE LISTING

<110> Ahlquist, Paul
Ishikawa, Masayuki
Barcelona, Juana
Price, Duane
Lee, Wai-Ming

<120> Yeast genes that affect viral replication

<130> 960296.00096

<160> 22

<170> PatentIn version 3.3

<210> 1

<211> 32

<212> PRT

<213> *Saccharomyces cerevisiae*

<400> 1

Leu Arg Val Leu Thr Gln Asp Gly Arg Val Tyr Ile Gly Gln Leu Met
1 5 10 15

Ala Phe Asp Lys His Met Asn Leu Val Leu Asn Glu Cys Ile Glu Glu
20 25 30

<210> 2

<211> 14

<212> PRT

<213> *Saccharomyces cerevisiae*

<400> 2

Leu Gly Leu Thr Ile Leu Arg Gly Glu Gln Ile Leu Ser Thr
1 5 10

<210> 3

<211> 32

<212> PRT

<213> *Saccharomyces cerevisiae*

<400> 3

Val Thr Ile Glu Leu Lys Asn Gly Thr Thr Val Trp Gly Thr Leu Gln
1 5 10 15

Ser Val Ser Pro Gln Met Asn Ala Ile Leu Thr Asp Val Lys Leu Thr
20 25 30

<210> 4
<211> 14
<212> PRT
<213> *Saccharomyces cerevisiae*

<400> 4

Leu Gln Tyr Ile Asn Ile Arg Gly Asn Thr Ile Arg Gln Ile
1 5 10

<210> 5
<211> 32
<212> PRT
<213> *Saccharomyces cerevisiae*

<400> 5

Ile Trp Leu Phe Glu Gln Ile Gly Ile Arg Ile Lys Gly Lys Ile Val
1 5 10 15

Gly Phe Asp Glu Phe Met Asn Val Val Ile Asp Glu Ala Val Glu Ile
20 25 30

<210> 6
<211> 14
<212> PRT
<213> *Saccharomyces cerevisiae*

<400> 6

Leu Gly Lys Ile Leu Leu Lys Gly Asp Asn Ile Thr Leu Ile
1 5 10

<210> 7
<211> 33
<212> PRT
<213> *Saccharomyces cerevisiae*

<400> 7

Val Gly Val Lys Leu Lys Phe Asn Ser Thr Glu Tyr Arg Gly Thr Leu
1 5 10 15

Val Ser Thr Asp Asn Tyr Phe Asn Leu Gln Leu Asn Glu Ala Glu Glu
20 25 30

Phe

<210> 8

<211> 14
<212> PRT
<213> *Saccharomyces cerevisiae*

<400> 8

Leu Gly Glu Ile Phe Ile Arg Cys Asn Asn Val Leu Tyr Ile
1 5 10

<210> 9
<211> 32
<212> PRT
<213> *Saccharomyces cerevisiae*

<400> 9

Ile Leu Leu Asn Ile Asn Gly Ser Arg Lys Val Ala Gly Ile Leu Arg
1 5 10 15

Gly Tyr Asp Ile Phe Leu Asn Val Val Leu Asp Asp Ala Met Glu Ile
20 25 30

<210> 10
<211> 14
<212> PRT
<213> *Saccharomyces cerevisiae*

<400> 10

Ile Gly Met Val Val Ile Arg Gly Asn Ser Ile Ile Met Leu
1 5 10

<210> 11
<211> 32
<212> PRT
<213> *Saccharomyces cerevisiae*

<400> 11

Ile Phe Val Leu Leu Arg Asp Gly Arg Met Leu Phe Gly Val Leu Arg
1 5 10 15

Thr Phe Asp Gln Tyr Ala Asn Leu Ile Leu Gln Asp Cys Val Glu Arg
20 25 30

<210> 12
<211> 14
<212> PRT
<213> *Saccharomyces cerevisiae*

<400> 12

Arg Gly Ile Phe Met Ile Arg Gly Glu Asn Val Val Met Leu
1 5 10

<210> 13
<211> 31
<212> PRT
<213> Schizosaccharomyces pombe

<400> 13

Ile Val Val Leu Arg Asp Gly Lys Lys Leu Ile Gly Ile Leu Arg Ser
1 5 10 15

Phe Asp Gln Phe Ala Asn Leu Met Leu Gln Tyr Thr Ile Glu Arg
20 25 30

<210> 14
<211> 14
<212> PRT
<213> Schizosaccharomyces pombe

<400> 14

Arg Gly Val Tyr Ile Val Arg Gly Glu Asn Val Val Leu Leu
1 5 10

<210> 15
<211> 31
<212> PRT
<213> Homo sapiens

<400> 15

Leu Val Leu Leu Arg Asp Gly Arg Thr Leu Ile Gly Phe Leu Arg Ser
1 5 10 15

Ile Asp Gln Phe Ala Asn Leu Val Leu His Gln Thr Val Glu Arg
20 25 30

<210> 16
<211> 14
<212> PRT
<213> Homo sapiens

<400> 16

Arg Gly Ile Phe Val Val Arg Gly Glu Asn Val Val Leu Leu
1 5 10

<210> 17
<211> 31
<212> PRT
<213> *Caenorhabditis elegans*

<400> 17

Leu Val Val Leu Arg Asp Gly Arg Lys Leu Ile Gly Phe Leu Arg Ser
1 5 10 15

Ile Asp Gln Phe Ala Asn Leu Ile Leu Glu Asp Val Val Glu Arg
20 25 30

<210> 18
<211> 14
<212> PRT
<213> *Caenorhabditis elegans*

<400> 18

Gln Gly Phe Met Leu Ile Arg Gly Glu Asn Val Glu Leu Ala
1 5 10

<210> 19
<211> 32
<212> PRT
<213> *Saccharomyces cerevisiae*

<400> 19

Leu Ile Val Ser Thr Leu Glu Asp Arg Ile Leu Val Gly Ser Leu Val
1 5 10 15

Ala Val Asp Ala Gln Met Asn Leu Leu Leu Asp His Val Glu Glu Arg
20 25 30

<210> 20
<211> 14
<212> PRT
<213> *Saccharomyces cerevisiae*

<400> 20

Gly Leu Val Ser Val Pro Arg Arg Ser Val Lys Thr Ile Met
1 5 10

<210> 21
<211> 33
<212> PRT
<213> Artificial

<220>
<223> conserved sequence of Sm motif 1

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> X is a hydrophobic amino acid

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> X can be any amino acid

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> X is a hydrophobic amino acid

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> X can be any amino acid

<220>
<221> MISC_FEATURE
<222> (6)..(11)
<223> X can be any amino acid

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> X is a hydrophobic amino acid

<220>
<221> MISC_FEATURE
<222> (13)..(13)
<223> X can be any amino acid

<220>
<221> MISC_FEATURE
<222> (15)..(15)
<223> X can be any amino acid

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> X is a hydrophobic amino acid

<220>
<221> MISC_FEATURE
<222> (17)..(19)
<223> X can be any amino acid

<220>
<221> MISC_FEATURE
<222> (21)..(22)

<223> X can be any amino acid

<220>

<221> MISC_FEATURE

<222> (25)..(25)

<223> X is a hydrophobic amino acid

<220>

<221> MISC_FEATURE

<222> (26)..(26)

<223> X can be any amino acid

<220>

<221> MISC_FEATURE

<222> (27)..(27)

<223> X is a hydrophobic amino acid

<220>

<221> MISC_FEATURE

<222> (28)..(31)

<223> X can be any amino acid

<220>

<221> MISC_FEATURE

<222> (33)..(33)

<223> X can be any amino acid

<400> 21

Xaa	Xaa	Xaa	Xaa	Leu	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Gly	Xaa	Xaa
1				5				10						15	

Xaa	Xaa	Xaa	Asp	Xaa	Xaa	Met	Asn	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Glu
			20				25						30		

Xaa

<210> 22

<211> 14

<212> PRT

<213> Artificial

<220>

<223> conserved sequence of Sm motif 2

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> X is a hydrophobic amino acid

<220>

<221> MISC_FEATURE

```

<222> (1)..(1)
<223> X is a hydrophobic amino acid

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> X can be any amino acid

<220>
<221> MISC_FEATURE
<222> (4)..(6)
<223> X is a hydrophobic amino acid

<220>
<221> MISC_FEATURE
<222> (9)..(9)
<223> X can be any amino acid

<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> X is a hydrophobic amino acid

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> X can be any amino acid

<220>
<221> MISC_FEATURE
<222> (13)..(14)
<223> X is a hydrophobic amino acid

<400> 22

Xaa Gly Xaa Xaa Xaa Xaa Arg Gly Xaa Asn Xaa Xaa Xaa Xaa
1          5          10

```